



Back to Back Stem and Leaf Plot of Sex vs. Concentration Time

How to Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool [Random Sampler](#) to download a sample.X

Reference year: (select year) **Sample size:** At least 50 students

Select questions: Sex, Concentration Time

Location: Select location

Year level: (select a range of year levels)

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% entered.

Task:

Back to back stem and leaf plots are used when the same data is collected from two different groups that we are interested in comparing.

1. Collect data about the concentration time of 50 students. Find the minimum and maximum values overall and set up the stems in the table below. Use the leaves to record the times for males and females. Data needs to be spread evenly in the leaves.

Unordered concentration times		
Males		Females

2. Use the ordered stem and leaf plot below to order the data from above. Remember a stem and leaf plot is not complete until it has a title and a key.

Ordered concentration times		
Males		Females



- 3.** Use the shape, centre and spread of the stem and leaf plot to compare the distribution of males compared with females. What is similar and what is different?